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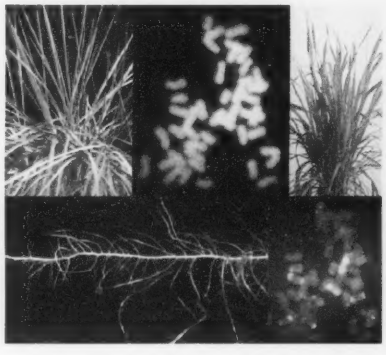

Cover Photo: The roots (bottom left) of a wild relative of wheat, *Leymus racemosus* (Lam.) Tzvelev (top left), release Biological Nitrification Inhibition (BNI) compounds, while *Triticum aestivum* L. cv. Chinese Spring (top right) does not. A 44 chromosome (top middle) hybrid of the two species, chromosome-addition line DALr#n, possesses the BNI trait, due to the presence of Lr#n chromosomes (bottom right). This is the first report of finding high BNI in a wild relative of a cereal, and of its successful introduction and expression in cultivated wheat, demonstrating the potential for empowering the new generation of wheat cultivars with high BNI capacity to reduce nitrification in farming systems. pp. 55–64.

Cover image by Pearse S.J., Subbarao G.V. and Masahiro K.